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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CRYSTALLINE FORMS OF (R)-8-CHLORO-1-METHYL- 2,3,4,5-TETRAHYDRO-1H-3-BENZAZEPINE HYDROCHLORIDE

(57) Abstract: The present invention is directed to crystalline forms of (R)-8-chloro-1-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine, compositions containing the same, preparations, and uses thereof.

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## INTERNATIONAL SEARCH REPORT

International application No  
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A. CLASSIFICATION OF SUBJECT MATTER  
INV. C07D223/16 A61K31/55 A61P3/04 A61P25/30 A61P25/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | WO 03/086306 A2 (ARENA PHARM INC [US]; SMITH JEFFREY [US]; SMITH BRIAN [US] ARENA PHARM) 23 October 2003 (2003-10-23)<br>cited in the application examples 26,55; table 1<br>-----  | 1-40                  |
| P, X      | WO 2005/019179 A2 (ARENA PHARM INC [US]; BURBAUM BEVERLY W [US]; GILSON CHARLES A III [US] 3 March 2005 (2005-03-03)<br>cited in the application examples 3,7,12,14<br>-----<br>-/- | 1-40                  |

Further documents are listed in the continuation of Box C.

See patent family annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

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International application No  
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## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| P,X       | SMITH B M ET AL: "Discovery and SAR of new benzazepines as potent and selective 5-HT2C receptor agonists for the treatment of obesity"<br>BIOORGANIC & MEDICINAL CHEMISTRY LETTERS,<br>OXFORD, GB,<br>vol. 15, no. 5, 1 March 2005 (2005-03-01),<br>pages 1467-1470, XP004750690<br>ISSN: 0960-894X<br>table 4, compound (R)-15<br>----- | 1-40                  |

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 28–31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/046983

| Patent document cited in search report | Publication date | Patent family member(s)  | Publication date   |
|--|------------------|--|--|
| WO 03086306                            | A2 23-10-2003    | AT 294781 T<br>AU 2003221866 A1<br>BR 0309303 A<br>CA 2481723 A1<br>CN 1646493 A<br>DE 60300610 D1<br>DE 60300610 T2<br>DK 1411881 T3<br>EP 1411881 A2<br>ES 2242165 T3<br>HK 1064095 A1<br>JP 2005527579 T<br>JP 2006143751 A<br>MX PA04009965 A<br>NZ 535381 A<br>PT 1411881 T<br>US 2003225057 A1<br>US 2005020573 A1 | 15-05-2005<br>27-10-2003<br>26-04-2005<br>23-10-2003<br>27-07-2005<br>09-06-2005<br>14-06-2006<br>29-08-2005<br>28-04-2004<br>01-11-2005<br>16-09-2005<br>15-09-2005<br>08-06-2006<br>30-09-2005<br>28-07-2006<br>30-09-2005<br>04-12-2003<br>27-01-2005 |
| WO 2005019179                          | A2 03-03-2005    | AU 2004267016 A1<br>BR PI0411613 A<br>CA 2529401 A1<br>EP 1636191 A2<br>KR 20060023163 A<br>MX PA05013364 A  | 03-03-2005<br>08-08-2006<br>03-03-2005<br>22-03-2006<br>13-03-2006<br>17-03-2006   |